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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/751,289	12/29/2000		Alan S. Chapman	57983.000032	8904		
•	7590 02/28/2006				EXAMINER		
Thomas E. A	ndersor	1	SALAD, ABDULLAHI ELMI				
Hunton & Wil	liams						
1900 K Street,	N.W.		ART UNIT	PAPER NUMBER			
Washington, 1	DC 200	06-1109	2157	2157			
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DATE MAILED: 02/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)					
Office Action Summary			09/751,289	9	CHAPMAN ET AL.				
			Examiner		Art Unit				
			Salad E. Al	odullahi	2157				
Period for	The MAILING DATE of this commun Reply	nication appe	ears on the	cover sheet with the c	orrespondence ad	dress			
WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE Noines of time may be available under the provisions IX (6) MONTHS from the mailing date of this complete of reply is specified above, the maximum is to reply within the set or extended period for reply ply received by the Office later than three months I patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period wi y will, by statute,	ATE OF THI 6(a). In no ever fill apply and will cause the applic	S COMMUNICATION nt, however, may a reply be time expire SIX (6) MONTHS from the cation to become ABANDONEI	J. lely filed the mailing date of this co D (35 U.S.C. § 133).				
Status									
1)⊠	Responsive to communication(s) file	ed on 03 Fe	bruary 200	6.					
•	This action is FINAL . 2b)⊠ This action is non-final.								
3)□ \$	Since this application is in condition	for allowan	ce except f	or formal matters, pro	secution as to the	merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠ (4)⊠ Claim(s) <u>1,2,4-7,9-19 and 21</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
· <u></u>	5)								
-	Claim(s) is/are objected to.								
•	Claim(s) are subject to restrict	ction and/or	election re	guirement.					
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Applicatio									
-	he specification is objected to by th			_					
,—	he drawing(s) filed on is/are		-						
	Applicant may not request that any obje			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ur	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (F ation Disclosure Statement(s) (PTO-1449 or		4	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te	J-152)			
	No(s)/Mail Date	6) Other:	•	•					

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/3/3006 has been entered.

- 2. Applicant's argument filed on 2/3/2006 with respect to claims 1-2, 4-7, 9-19 and 21 have been fully considered but are not persuasive for the following reasons.
- (A) Applicant alleges Neither Hatakeyama, Gourlay nor their combination disclose the independent claims as amended where the content further comprises a descriptor that comprises an ONIX code.

In response to applicant's arguments, the recitation content further comprises a "descriptor that comprises an ONIX code" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

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(B) Applicant alleges the references fail to discloses "a descriptor that enables the at least one node to identify an attribute of the content". Examiner respectfully disagrees because Gourlay discloses a content based web site 250, such as contentprovider.com, may provide various graphics, web pages, and other files as content to be distributed to various users throughout the Internet. For purposes of this example, the url www.contentprovider.com/logos/logo.gif is used to represent one of the content files contentprovider.com provides. Version 2 of this logo may be already stored in caches throughout the network. Furthermore, content descriptor is like content attribute such as the content tag or version/serial number of then content as taught by Gourlay (see fig.6).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-2, 4-7 and 9-13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatakeyama U.S. Patent No. 6,542,468 [hereinafter Hatakeyama] in view of Gourlay U.S. Patent No.6, 850,980 [hereinafter Gourlay].

As per claim 1, Hatakeyama discloses a method for delivering content over a network having at least one requesting endpoint and at least one node, wherein the content further comprises a descriptor that comprises an ONIX code and that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: the method comprising:

launching a request for content from the at least one requesting end point (transmitting request to service provider) (see col. 9, lines 10-15);

propagating the request over the network to the at least one node(see col. 9, lines 10-15 and col. 10, lines 6-10);

leaving a trail of the request at the at least one node(storing or recording the path of the request at a node) (see fig. 4b and col. 9, lines 6—31 and col. 13, lines 23-50); and when content matching the request is located, returning a copy of the content to the at least one requesting endpoint over the trail of the request (col. 9, lines 6—31 and col. 13, lines 23-50).

Hatakeyama does not explicitly disclose regarding: wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request

with a request payload containing one or more instructions on what to locate in the descriptor.

Gourlay discloses content routing system for delivering a content over a network, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21). Therefore, it would have been obvious to having ordinary skill in the art at the time of the invention to incorporate the teaching of Gourlay into the system of Hatakeyama such as launching the request with a request payload (i.e., content identifier) containing one or more instructions on what to locate in the descriptor, thus the speed of accessing any particular piece of content has been greatly enhanced.

As per claim 2, Hatakeyama discloses the method of claim 1, wherein the network comprises at least one other endpoint and the method further comprises: propagating the request over the network to the at least one other endpoint; and leaving a trail of the request at the at least one other endpoint (col. 13, lines 23-50).

As per claims 4-5, Gourlay the method of claim 1, further comprising:

Launching the request with a persistence indicator that indicates a duration for which the request is to be preserved at the at least one node (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21).

As per claim 6, Gourlay discloses the method of claim 1, wherein the at least one node further comprises a receiver for receiving the request and identifying an adjacent node from which the request is received, and the method further comprises: comparing the request payload to the descriptor of the content stored at the at least one node; and when the request payload matches the descriptor, forwarding the content with the matching descriptor to the adjacent node (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21).

As per claim 7, Hatakeyama discloses a method for delivering content over a network having at least one requesting endpoint and at least one node, wherein the content further comprises a descriptor that comprises an ONIX code and that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: the method comprising:

launching a request for content from the at least one requesting end point (transmitting request to service provider) (see col. 9, lines 10-15);

propagating the request over the network to the at least one node(see col. 9, lines 10-15 and col. 10, lines 6-10);

leaving a trail of the request at the at least one node(storing or recording the path of the request at a node) (see fig. 4b and col. 9, lines 6—31 and col. 13, lines 23-50); and when content matching the request is located, returning a copy of the content to the at least one requesting endpoint over the trail of the request (col. 9, lines 6-31 and col. 13, lines 23-50).

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Hatakeyama does not explicitly disclose regarding: wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor.

Gourlay discloses content routing system for delivering a content over a network, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21). Therefore, it would have been obvious to having ordinary skill in the art at the time of the invention to incorporate the teaching of Gourlay into the system of Hatakeyama such as launching the request with a request payload (i.e., content identifier) containing one or more instructions on what to locate in the descriptor, thus the speed of accessing any particular piece of content has been greatly enhanced.

As per claims 9-10, Gourlay the method of claim 7, further comprising:

Launching the request with a persistence indicator that indicates a duration

for which the request is to be preserved at the at least one node (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21).

from which the request is received, and the method further comprises:

As per claim 11, Gourlay discloses the method of claim 7, wherein the at least one node further comprises a receiver for receiving the request and identifying an adjacent node

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comparing the request payload to the descriptor of the content stored at the at least one node; and when the request payload matches the descriptor, forwarding the content with the matching descriptor to the adjacent node (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21).

As per claim 12, Hatakeyama discloses a method for delivering content over a network having at least one requesting endpoint and at least one node, wherein the content further comprises a descriptor that comprises an ONIX code and that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: the method comprising:

launching a request for content from the at least one requesting end point (transmitting request to service provider) (see col. 9, lines 10-15);

propagating the request over the network to the at least one node(see col. 9, lines 10-15 and col. 10, lines 6-10);

leaving a trail of the request at the at least one node(storing or recording the path of the request at a node) (see fig. 4b and col. 9, lines 6—31 and col. 13, lines 23-50); and when content matching the request is located, returning a copy of the content to the at least one requesting endpoint over the trail of the request (col. 9, lines 6—31 and col. 13, lines 23-50).

Hatakeyama does not explicitly disclose regarding:, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor.

Gourlay discloses content routing system for delivering a content over a network, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21). Therefore, it would have been obvious to having ordinary skill in the art at the time of the invention to incorporate the teaching of Gourlay into the system of Hatakeyama such as launching the request with a request payload (i.e., content identifier) containing one or more instructions on what to locate in the descriptor, thus the speed of accessing any particular piece of content has been greatly enhanced.

As per claim 13, Hatakeyama discloses a method for delivering content over a network having at least one requesting endpoint and at least one node, wherein the content further comprises a descriptor that comprises an ONIX code and that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: the method comprising:

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launching a request for content from the at least one requesting end point (transmitting request to service provider) (see col. 9, lines 10-15);

propagating the request over the network to the at least one node(see col. 9, lines 10-15 and col. 10, lines 6-10);

leaving a trail of the request at the at least one node(storing or recording the path of the request at a node) (see fig. 4b and col. 9, lines 6—31 and col. 13, lines 23-50); and when content matching the request is located, returning a copy of the content to the at least one requesting endpoint over the trail of the request (col. 9, lines 6-31 and col. 13, lines 23-50).

Hatakeyama does not explicitly disclose regarding: wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor.

Gourlay discloses content routing system for delivering a content over a network, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21). Therefore, it would have been obvious to having ordinary skill in the art at the time of the invention to incorporate the teaching of Gourlay into the system of Hatakeyama such as launching the request with a request payload (i.e., content

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identifier) containing one or more instructions on what to locate in the descriptor, thus the speed of accessing any particular piece of content has been greatly enhanced.

6. Claims 14-19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatakeyama and Gourlay in view of Chen U.S. Patent No. 6,567,380[hereinafter Chen].

As per claim 14, Hatakeyama a method for transferring content over a network comprising one or more nodes wherein the one or more nodes are enabled to route messages related to the transfer of content, wherein the content further comprises a descriptor that comprises an ONIX code and that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: the method comprising:

transmitting a request registration message when requesting content from the one or more nodes, wherein the request registration message advertises (i.e., notifies) to the one or more nodes an interest in locating a particular content (i.e., transmitting request of desired content to other nodes) (see col. 9, lines 10-15 and col. 13, lines 36-50); transmitting a content deliver message when the particular content requested is located at the one or more nodes(see col. 9, lines 10-15 and col. 13, lines 36-50); and transferring the particular content requested or a copy of the particular content requested toward the one or more nodes from which the request registration message was transmitted (col. 9, lines 6-31 and col. 13, lines 23-50).

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Hatakeyama does not explicitly disclose regarding:, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor.

Gourlay discloses content routing system for delivering a content over a network, wherein the content further comprises a descriptor that enables the at least one node to identify an attribute of the content, and the step of launching a request further comprises: launching the request with a request payload containing one or more instructions on what to locate in the descriptor (see figs. 3 and 4 and col. 3, line 50 to col. 4 line 21). Therefore, it would have been obvious to having ordinary skill in the art at the time of the invention to incorporate the teaching of Gourlay into the system of Hatakeyama such as launching the request with a request payload (i.e., content identifier) containing one or more instructions on what to locate in the descriptor, thus the speed of accessing any particular piece of content has been greatly enhanced. Hatakeyama and Gourlay are silent regarding:

transmitting a content registration message when new content is available at the one or more nodes, wherein the content registration message advertises to the one or more nodes that the new content is available.

Chen, discloses a system for propagating of routing update messages to neighboring nodes including transmitting a content registration message when new content is available at the one or more nodes, wherein the content registration message (i.e.,

message (see col. 5, lines 41-60).

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transmitting content advertisement message to neighboring nodes when the content of the routing changes (see the abstract and col. 5, lines 41-51). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the Chen transmitting a content registration message when new content is available at the one or more nodes, wherein the content registration message advertises to the one or more nodes that the new content is available into the combined system Hatakeyama and Gourlay in order to reduce repetitive request message by ensuring nodes transmit notification messages when new content is available, thus reducing bandwidth utilization.

As per claim 15, Chen discloses the method of claim 14, wherein the step of transmitting a content registration message further comprises:

propagating the content registration message to the one or more nodes (see col. 5, lines 41-60); and

building a routing table entry at the one or more nodes using the content registration

As per claim 16, Chen discloses the method of claim 14, wherein the step of transmitting a content registration message further comprises: propagating the request registration message to the one or more nodes (see col. 5, lines 41-60); and

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building a routing table entry at the one or more nodes using the request registration message (see fig.7 col. 5, lines 6, lines 10-33).

As per claim 17, Chen discloses the method of claim 14, wherein the step of transmitting a request registration message further comprises: creating a request registration message trail (i.e., creating request message path) (see fig. 5 and col. 6, lines 50-65).

As per claim 18, Chen discloses the method of claim 17, wherein the one or more nodes are enabled to store messages and wherein the step of creating a request registration message trail further comprises: storing a copy of the request registration message at each of the one or more nodes that route the request registration message (see fig. 5 and col. 6, lines 50-65).

As per claim 19, Chen discloses the method of claim 17, wherein the step of transferring the particular content requested or a copy of the particular content requested toward the one or more nodes from which the request registration message was transmitted further comprises: routing the particular content requested or a copy of the particular content requested along a path marked by the request registration message trail (see fig. 5 and col. 6, lines 50-65).

As per claim 21 Gourlay discloses disclose the method of claim 14, further comprising: balancing the network load for transferring content by storing copies of content at the one or more nodes(see fig. 11 and col. 7, lines 16-33).

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Salad E. Abdullahi whose telephone number is 571-272-

4009. The examiner can normally be reached on 8:30 - 5:00. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can

be reached on 571-272-4001. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Center (EBC) at 866-217-9197 (toll-free).

Abdullahi Salad Primary Examiner 2/17/2005